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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,776	08/01/2003	Stephen E. Terry	I-2-0378.1US	3653

24374 7590 09/07/2006

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EXAMINER

NGUYEN, TU X

ART UNIT	PAPER NUMBER
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2618

DATE MAILED: 09/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/632,776	TERRY, STEPHEN E.	
	Examiner	Art Unit	
	Tu X. Nguyen	2618	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-28 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 6/26/06 have been fully considered but they are not persuasive.

In response to Applicants argue Naito fails to disclose limitations "when some, but not all, of the mobile station exceed the threshold, transmission power of the PtM transmission is not changed". The Examiner agrees with Applicants that Naito does not disclose "all of the receivers". However, the cited reference meets the limitations when in the situation "if all receivers" have not arise.

Regarding dependent claims 2-3, 10-11 and 16-17, the Examiner rejects the claims under U.S.C 103(a) obviousness. However, Naito disclose "a common channel" corresponds to "shared channel".

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1, 4-9, 12-15 and 18-28, are rejected under 35 U.S.C. 102(e) as being anticipated by Naito (US Patent 6,728,226).

Consider claim 1, Naito discloses a method for transferring data in a wireless communication system (Abstract), the method comprising: transmitting data over a particular channel from a transmitter to a plurality of receivers (Abstract); receiving the particular channel at the plurality of receivers (Abstract); each of the receivers sending power control information to the transmitter based on a measured reception quality and a reception quality requirements of each receiver (Abstract, column 9 lines 21-28, column 10 lines 25-28 and 35-38), the transmitter using the power control information from each receiver and adjusting a transmission power level of the particular channel so that if any receiver requires an increase in the transmission power level to meet that receiver quality requirement, the transmission power level is increased (Column 10 lines 35-38) and if all receivers exceed their quality requirement, the transmission power level is decreased (Column 8 lines 34-39, column 9 lines 17-20 and 35-44).

Consider claim 9, Naito discloses a base station for transferring data over a particular channel to multiple users (Abstract), the base station comprising: a transmitter and an antenna for producing a particular channel for transmission to a plurality of users simultaneously (Abstract, column 6 lines 47-49, figure 1A element 10)., a power control receiver for receiving power control information from each of the users (Abstract, column 6 lines 49-51, figure 1A element 13), and a transmit power control device for using the power control information from each of the plurality of users and adjusting a transmission power level of an amplifier of the particular channel (Abstract, column 6 lines 51-58, figure 1A elements 14, 16 and 17) so that if any user requires an increase in the transmission power level, the transmission power level is increased (Column 10 lines 35-38) and if all users exceed their quality requirement, the transmission power level is decreased (Column 8 lines 34-39, column 9 lines 17-20 and 35-44).

Consider claim 15, Naito discloses a base station for transferring data over a particular channel to multiple users (Abstract), the base station comprising: means for producing a particular channel for transmission to a plurality of users simultaneously (Abstract, column 6 lines 47-49, figure 1A element 10), means for receiving power control information from each of the users', and means for using the power control information from each of the plurality of users (Abstract, column 6 lines 49-51, figure 1A element 13) and adjusting a transmission power level of an amplifier of the particular channel (Abstract, column 6 lines 51-58, figure 1A elements 14, 16 and 17) so that if any user requires an increase in the transmission power level, the transmission power level is increased (Column 10 lines 35-38) and if all users exceed their quality requirement, the transmission power level is decreased (Column 8 lines 34-39, column 9 lines 17-20 and 35-44).

Consider claims 4, 12 and 18, Naito discloses all the limitations as applied to claims 1, 9 and 15 above and also discloses wherein the power control information received from each user is transmit power control commands (Column 10 lines 35-38, reads on claims 4, 12 and 18). Consider claims 7, 8, 13, 14, 19 and 20, Naito et al. discloses all the limitations as applied to claims 1, 9 and 15 above and also discloses wherein for each of the receivers (which includes "at least one of the receivers"), the particular channel has an associated dedicated (discrete) channel and the measured reception quality is of the associated dedicated channel (Abstract, column 2 lines 22-26, column 7 lines 6-8, column 8 lines 34-39, column 9 lines 17-20 and 35-44, column 10 lines 35-38, figure 1B Page 7 element 20, reads on claims 24 and 28).

Consider claim 21, Naito P discloses a wireless transmit/receive unit (mobile station) for receiving data over a particular channel (Abstract), the wireless transmit/receive unit

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comprising: a receiver for receiving the particular channel, the particular channel being received by a plurality of wireless transmit/receive unit simultaneously (Abstract, column 7 lines 6-8, figure IB element 20)., a power control information generator for sending power control information based on a measured reception quality and a reception quality requirements of the wireless transmit/receive unit (Abstract, column 7 lines 10-16, column 9 lines 17-20, figure IB elements 24, 25 and 26)., and wherein the particular channel has a transmission power level set so that if any of the plurality of NRUS requires an increase in the transmission power level to meet that reception quality requirement, the transmission power level is increased (Column 10 lines 35-38) and if all of the plurality of wireless transmit/receive unit exceed their quality requirement, the transmission power level is decreased (Column 8 lines 34-39, column 9 lines 17-20 and 35-44).

Consider claim 25, Naito ons discloses a wireless transmit/receive unit for receiving data over a particular channel (Abstract), the wireless transmit/receive unit comprising: means for receiving the particular channel, the particular channel being received by a plurality of wireless transmit/receive unit simultaneously (Abstract, column 7 lines 6-8, figure IB element 20)., means for sending power control information based on a measured reception quality and a reception quality requirements of the wireless transmit/receive unit (Abstract, column 7 lines 10-16, column 9 lines 17-20, figure IB elements 24, 25 and 26)., and wherein the particular channel has a transmission power level set so that if any of the plurality of wireless transmit/receive unit requires an increase in the transmission power level to meet that reception quality requirement, the transmission power level is increased (Column 10 lines 35-38) and if all of the plurality of

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wireless transmit/receive unit exceed their quality requirement, the transmission power level is decreased (Column 8 lines 34-39, column 9 lines 17-20 and 35-44).

Consider claims 5, 22 and 26, Naito discloses all the limitations as applied to claims 1, 21 and 25 above and also discloses wherein the measured reception quality is a signal to interference ratio and the reception quality requirement is a target signal to interference ratio (Column 1 line 31-49, reads on claims 5, 22 and 26).

Consider claims 6, 23 and 27, Naito et al. discloses all the limitations as applied to claims 1, 21 and 25 above and also discloses wherein the measured reception quality is a reception quality of the particular channel (Abstract, column 8 lines 34-39, column 9 lines 17-20 and 35-44, column 10 lines 35-38, reads on claims 6, 23 and 27).

Consider claims 24 and 28, Naito et al. discloses all the limitations as applied to claims 21 and 25 above and also discloses a dedicated channel receiver/means for receiving a dedicated channel and wherein the measured reception quality is of the dedicated channel (Abstract, column 2 lines 22-26, column 7 lines 6-8, column 8 lines 34-39, column 9 lines 17-20 and 35-44, column 10 lines 35-38, figure 1B element 20, reads on claims 24 and 28).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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5. Claims 2, 3, 10, 11, 16 and 17, are rejected under 35 U.S.C. 103(a) as being obvious over Naito in view of Das et al. (US 2003/0157953 A1).

Consider claims 2, 3, 10, 11, 16 and 17, Naito discloses all the limitations as applied to claims 1, 9 and 15 above. However, Naito does not disclose wherein the particular channel is a shared channel (as in claims 2, 10 and 16) or a high-speed shared channel (as in claims 3, 11 and 17). Das et al. disclose wherein the particular channel is a shared channel (Abstract, paragraphs (0010) and (0027), reads on claims 2, 10 and 16), more specifically a high-speed shared channel (Abstract, paragraphs (0010) and (0027), reads on claims 3, 11 and 17). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to use a high-speed shared channel as taught by Das et al. in the method and base station taught by Naito in order to perform flexible and versatile signaling and prevent the need to traverse a backhaul path between the base station and its respective base station controller (as suggested by Das et al. in the abstract, paragraphs (0011) and (0028)).

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will

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be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 571-272-7883. The examiner can normally be reached on Monday through Friday from 6:30AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


August 21, 2006


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